RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: _09/211,297_

Source: _____

Date Processed by STIC: _____

ENTERED

RAW SEQUENCE LISTING   DATE: 05/03/2005
PATENT APPLICATION: US/09/211,297   TIME: 13:27:53

Input Set : **N:\Crf3\RULE60\09211297.raw.txt**
Output Set: **N:\CRF4\05032005\I211297.raw**

SEQUENCE LISTING
```
 3  (1) GENERAL INFORMATION:
 5       (i) APPLICANT: Boyle, William J.
 7      (ii) TITLE OF INVENTION: Osteoprotegerin Binding Proteins
 9     (iii) NUMBER OF SEQUENCES: 39
11      (iv) CORRESPONDENCE ADDRESS:
12           (A) ADDRESSEE: Amgen Inc.
13           (B) STREET: One Amgen Center Drive
14           (C) CITY: Thousand Oaks
15           (D) STATE: California
16           (E) COUNTRY: USA
17           (F) ZIP: 91320-1789
19       (v) COMPUTER READABLE FORM:
20           (A) MEDIUM TYPE: Floppy disk
21           (B) COMPUTER: IBM PC compatible
22           (C) OPERATING SYSTEM: PC-DOS/MS-DOS
23           (D) SOFTWARE: PatentIn Release #1.0, Version #1.30
25      (vi) CURRENT APPLICATION DATA:
```
C--> 26   **(A) APPLICATION NUMBER: US/09/211,297**
C--> 27   **(B) FILING DATE: 14-Dec-1998**
W--> 33   **(C) CLASSIFICATION: 514**
C--> 30   **(vii) PRIOR APPLICATION DATA:**
```
31           (A) APPLICATION NUMBER: US/08/880,855
32           (B) FILING DATE: 23-06-1997
35    (viii) ATTORNEY/AGENT INFORMATION:
36           (A) NAME: Winter, Robert B.
37           (C) REFERENCE/DOCKET NUMBER: A-451A
40  (2) INFORMATION FOR SEQ ID NO: 1:
42       (i) SEQUENCE CHARACTERISTICS:
43           (A) LENGTH: 8 amino acids
44           (B) TYPE: amino acid
45           (C) STRANDEDNESS: single
46           (D) TOPOLOGY: linear
48      (ii) MOLECULE TYPE: protein
53      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:
55      Asp Pro Asn Arg Gln Asp Ile Asp
56      1               5
58  (2) INFORMATION FOR SEQ ID NO: 2:
60       (i) SEQUENCE CHARACTERISTICS:
61           (A) LENGTH: 52 base pairs
62           (B) TYPE: nucleic acid
63           (C) STRANDEDNESS: single
64           (D) TOPOLOGY: linear
```

RAW SEQUENCE LISTING   DATE: 05/03/2005
PATENT APPLICATION: US/09/211,297   TIME: 13:27:53

Input Set : N:\Crf3\RULE60\09211297.raw.txt
Output Set: N:\CRF4\05032005\I211297.raw

```
66       (ii) MOLECULE TYPE: cDNA
71       (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:
73 GTTCTCCTCA TATGGATCCA AACCGTATTT CTGAAGACAG CACTCACTGC TT          52
75 (2) INFORMATION FOR SEQ ID NO: 3:
77       (i) SEQUENCE CHARACTERISTICS:
78           (A) LENGTH: 37 base pairs
79           (B) TYPE: nucleic acid
80           (C) STRANDEDNESS: single
81           (D) TOPOLOGY: linear
83       (ii) MOLECULE TYPE: cDNA
88       (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:
90 TACGCACTCC GCGGTTAGTC TATGTCCTGA ACTTTGA                           37
92 (2) INFORMATION FOR SEQ ID NO: 4:
94       (i) SEQUENCE CHARACTERISTICS:
95           (A) LENGTH: 8 amino acids
96           (B) TYPE: amino acid
97           (C) STRANDEDNESS: single
98           (D) TOPOLOGY: linear
100      (ii) MOLECULE TYPE: protein
105      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:
107      Glu Asn Ala Gly Gln Asp Ile Asp
108      1               5
110 (2) INFORMATION FOR SEQ ID NO: 5:
112      (i) SEQUENCE CHARACTERISTICS:
113          (A) LENGTH: 51 base pairs
114          (B) TYPE: nucleic acid
115          (C) STRANDEDNESS: single
116          (D) TOPOLOGY: linear
118      (ii) MOLECULE TYPE: cDNA
123      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5:
125 ATTTGATTCT AGAAGGAGGA ATAACATATG CATGAAAACG CAGGTCTGCA G           51
127 (2) INFORMATION FOR SEQ ID NO: 6:
129      (i) SEQUENCE CHARACTERISTICS:
130          (A) LENGTH: 42 base pairs
131          (B) TYPE: nucleic acid
132          (C) STRANDEDNESS: single
133          (D) TOPOLOGY: linear
135      (ii) MOLECULE TYPE: cDNA
140      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6:
142 TATCCGCGGA TCCTCGAGTT AGTCTATGTC CTGAACTTTG AA                     42
144 (2) INFORMATION FOR SEQ ID NO: 7:
146      (i) SEQUENCE CHARACTERISTICS:
147          (A) LENGTH: 8 amino acids
148          (B) TYPE: amino acid
149          (C) STRANDEDNESS: single
150          (D) TOPOLOGY: linear
152      (ii) MOLECULE TYPE: protein
157      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7:
159      Glu Asp Thr Leu Gln Asp Ile Asp
```

```
160        1              5
162 (2) INFORMATION FOR SEQ ID NO: 8:
164       (i) SEQUENCE CHARACTERISTICS:
165           (A) LENGTH: 54 base pairs
166           (B) TYPE: nucleic acid
167           (C) STRANDEDNESS: single
168           (D) TOPOLOGY: linear
170       (ii) MOLECULE TYPE: cDNA
175       (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 8:
177 ATTTGATTCT AGAAGGAGGA ATAACATATG TCTGAAGACA CTCTGCCGGA CTCC       54
179 (2) INFORMATION FOR SEQ ID NO: 9:
181       (i) SEQUENCE CHARACTERISTICS:
182           (A) LENGTH: 9 amino acids
183           (B) TYPE: amino acid
184           (C) STRANDEDNESS: single
185           (D) TOPOLOGY: linear
187       (ii) MOLECULE TYPE: protein
192       (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 9:
194       Lys Gln Ala Phe Gln Gln Asp Ile Asp
195       1              5
197 (2) INFORMATION FOR SEQ ID NO: 10:
199       (i) SEQUENCE CHARACTERISTICS:
200           (A) LENGTH: 48 base pairs
201           (B) TYPE: nucleic acid
202           (C) STRANDEDNESS: single
203           (D) TOPOLOGY: linear
205       (ii) MOLECULE TYPE: cDNA
210       (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 10:
212 ATTTGATTCT AGAAGGAGGA ATAACATATG AAACAAGCTT TTCAGGGG           48
214 (2) INFORMATION FOR SEQ ID NO: 11:
216       (i) SEQUENCE CHARACTERISTICS:
217           (A) LENGTH: 10 amino acids
218           (B) TYPE: amino acid
219           (C) STRANDEDNESS: single
220           (D) TOPOLOGY: linear
222       (ii) MOLECULE TYPE: protein
227       (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 11:
229       Met Lys Glu Leu Gln His Gln Asp Ile Asp
230       1              5                   10
232 (2) INFORMATION FOR SEQ ID NO: 12:
234       (i) SEQUENCE CHARACTERISTICS:
235           (A) LENGTH: 51 base pairs
236           (B) TYPE: nucleic acid
237           (C) STRANDEDNESS: single
238           (D) TOPOLOGY: linear
240       (ii) MOLECULE TYPE: cDNA
245       (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 12:
247 ATTTGATTCT AGAAGGAGGA ATAACATATG AAAGAACTGC AGCACATTGT G          51
249 (2) INFORMATION FOR SEQ ID NO: 13:
```

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/211,297

DATE: 05/03/2005
TIME: 13:27:53

Input Set : **N:\Crf3\RULE60\09211297.raw.txt**
Output Set: **N:\CRF4\05032005\I211297.raw**

```
251        (i) SEQUENCE CHARACTERISTICS:
252            (A) LENGTH: 10 amino acids
253            (B) TYPE: amino acid
254            (C) STRANDEDNESS: single
255            (D) TOPOLOGY: linear
257       (ii) MOLECULE TYPE: protein
262       (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 13:
264     Met Gln Arg Phe Ser Gly Gln Asp Ile Asp
265     1               5                   10
267 (2) INFORMATION FOR SEQ ID NO: 14:
269        (i) SEQUENCE CHARACTERISTICS:
270            (A) LENGTH: 51 base pairs
271            (B) TYPE: nucleic acid
272            (C) STRANDEDNESS: single
273            (D) TOPOLOGY: linear
275       (ii) MOLECULE TYPE: cDNA
280       (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 14:
282 ATTTGATTCT AGAAGGAGGA ATAACATATG CAGCGTTTCT CTGGTGCTCC A          51
284 (2) INFORMATION FOR SEQ ID NO: 15:
286        (i) SEQUENCE CHARACTERISTICS:
287            (A) LENGTH: 9 amino acids
288            (B) TYPE: amino acid
289            (C) STRANDEDNESS: single
290            (D) TOPOLOGY: linear
292       (ii) MOLECULE TYPE: protein
297       (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 15:
299     Met Glu Gly Ser Trp Gln Asp Ile Asp
300     1               5
302 (2) INFORMATION FOR SEQ ID NO: 16:
304        (i) SEQUENCE CHARACTERISTICS:
305            (A) LENGTH: 40 base pairs
306            (B) TYPE: nucleic acid
307            (C) STRANDEDNESS: single
308            (D) TOPOLOGY: linear
310       (ii) MOLECULE TYPE: cDNA
315       (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 16:
317 GTTCTCCTCA TATGGAAGGT TCTTGGTTGG ATGTGGCCCA                        40
319 (2) INFORMATION FOR SEQ ID NO: 17:
321        (i) SEQUENCE CHARACTERISTICS:
322            (A) LENGTH: 9 amino acids
323            (B) TYPE: amino acid
324            (C) STRANDEDNESS: single
325            (D) TOPOLOGY: linear
327       (ii) MOLECULE TYPE: protein
332       (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 17:
334     Met Arg Gly Lys Pro Gln Asp Ile Asp
335     1               5
337 (2) INFORMATION FOR SEQ ID NO: 18:
339        (i) SEQUENCE CHARACTERISTICS:
```

```
340            (A) LENGTH: 44 base pairs
341            (B) TYPE: nucleic acid
342            (C) STRANDEDNESS: single
343            (D) TOPOLOGY: linear
345       (ii) MOLECULE TYPE: cDNA
350       (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 18:
352 GTTCTCCTCA TATGCGTGGT AAACCTGAAG CTCAACCATT TGCA                    44
354 (2) INFORMATION FOR SEQ ID NO: 19:
356       (i) SEQUENCE CHARACTERISTICS:
357            (A) LENGTH: 9 amino acids
358            (B) TYPE: amino acid
359            (C) STRANDEDNESS: single
360            (D) TOPOLOGY: linear
362       (ii) MOLECULE TYPE: protein
367       (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 19:
369       Met Lys Pro Glu Ala Gln Asp Ile Asp
370       1               5
372 (2) INFORMATION FOR SEQ ID NO: 20:
374       (i) SEQUENCE CHARACTERISTICS:
375            (A) LENGTH: 53 base pairs
376            (B) TYPE: nucleic acid
377            (C) STRANDEDNESS: single
378            (D) TOPOLOGY: linear
380       (ii) MOLECULE TYPE: cDNA
385       (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 20:
387 GTTCTCCTCA TATGAAACCT GAAGCTCAAC CATTTGCACA CCTCACCATC AAT          53
389 (2) INFORMATION FOR SEQ ID NO: 21:
391       (i) SEQUENCE CHARACTERISTICS:
392            (A) LENGTH: 9 amino acids
393            (B) TYPE: amino acid
394            (C) STRANDEDNESS: single
395            (D) TOPOLOGY: linear
397       (ii) MOLECULE TYPE: protein
402       (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 21:
404       Met His Leu Thr Ile Gln Asp Ile Asp
405       1               5
407 (2) INFORMATION FOR SEQ ID NO: 22:
409       (i) SEQUENCE CHARACTERISTICS:
410            (A) LENGTH: 65 base pairs
411            (B) TYPE: nucleic acid
412            (C) STRANDEDNESS: single
413            (D) TOPOLOGY: linear
415       (ii) MOLECULE TYPE: cDNA
420       (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 22:
422 GTTCTCCTCA TATGCATTTA ACTATTAACG CTGCATCTAT CCCATCGGGT TCCCATAAAG   60
424 TCACT                                                             65
426 (2) INFORMATION FOR SEQ ID NO: 23:
428       (i) SEQUENCE CHARACTERISTICS:
429            (A) LENGTH: 9 amino acids
```

VERIFICATION SUMMARY   DATE: 05/03/2005
PATENT APPLICATION: US/09/211,297   TIME: 13:27:54

Input Set : **N:\Crf3\RULE60\09211297.raw.txt**
Output Set: **N:\CRF4\05032005\I211297.raw**

L:26 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:]
L:27 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]
L:30 M:220 C: Keyword misspelled or invalid format, [(vii) PRIOR APPLICATION DATA:]
L:33 M:238 W: Alpha Fields not Ordered, Reordered [(C) CLASSIFICATION:] of (1)(vi)